

Annals of Medicine

Volume 32 • Number 1 • 2000

Editorial

- Can diabetic neuropathy be prevented by angiotensin-converting enzyme inhibitors? .. 1
Rayaz A Malik

Review Article

- Age-related cognitive decline, mild cognitive impairment or preclinical Alzheimer's disease? 6
Pierre Celsis

Trends in Molecular Medicine

- Molecular basis of androgen receptor diseases 15
Eu Leong Yong, Joyce Lim, Wang Qi, Victor Ong and Amparo Mifsud
- Medical significance of *Caenorhabditis elegans* 23
A Aziz Aboobaker and Mark L Blaxter

Special Section: Advances in Cancer Therapy

Guest Editor: Heikki Joensuu

- Novel cancer therapies: more efficacy, less toxicity and improved organ preservation ... 31
Heikki Joensuu
- Organ-conserving approaches to muscle-invasive bladder cancer: future alternatives to radical cystectomy 34
Anthony L Zietman, William U Shipley and Donald S Kaufman
- Neoadjuvant chemotherapy for breast cancer 43
Francisco Sapunar and Ian E Smith
- Role of sentinel lymph node dissection in breast cancer 51
Philip I Haigh and Armando E Giuliano
- Conformal radiotherapy for prostate cancer 57
Gerald E Hanks
- Linear accelerator radiosurgery in the management of brain tumours 64
William A Friedman and Kelly D Foote
- Boron neutron capture therapy for malignant gliomas 81
Aidnag Z Diaz, Jeffrey A Coderre, Arjun D Chanana and Ruimei Ma

Annals of Medicine

Volume 32 • Number 2 • 2000

Editorials

- Health for all in the 21st century? 87
Per Ashorn, Teija Kulmala and Marimaaria Vaahtera
- Urinary excretion of aquaporin-2 in pathological states of water metabolism 90
San-e Ishikawa

Review Articles

- Bile acids and progesterone metabolites in intrahepatic cholestasis of pregnancy 94
Humberto Reyes and Jan Sjövall
- Development of oral bacterial flora in young children 107
Eija Könönen

Trends in Clinical Practice

- Lasers in the treatment of ischaemic heart disease 113
James W Jones, Sheila E Schmidt and Bruce W Richman

Trends in Molecular Medicine

- Apolipoprotein E4: an allele associated with many diseases 118
Jonathan D Smith
- Neurotransmitter-related genes and antipsychotic response: pharmacogenetics meets psychiatric treatment 128
Maria J Arranz and Rob W Kerwin

Original Articles

- Relationship between fibrinolytic and metabolic variables: a study in patients attending a lipid clinic 134
Luciana Mussoni, Damiano Baldassarre, Luisa Mammucci, Cesare R Sirtori and Elena Tremoli
- Cardiovascular risk of young adults in relation to parental socioeconomic status: the Cardiovascular Risk in Young Finns Study 142
Marketta Leino, Olli T Raitakari, Kimmo V K Porkka, Hans Y M Helenius and Jorma S A Viikari

Annals of Medicine

Volume 32 • Number 3 • 2000

Editorial

- Genetic and environmental factors in the aetiology of simple goitre 153
Thomas Heiberg Brix and Laszlo Hegedüs

Review Article

- Increasing importance of viruses in acute otitis media 157
Terho Heikkinen and Tasnee Chonmaitree

Trends in Clinical Practice

- Non-lipid-related effects of statins 164
Stefano Bellosta, Nicola Ferri, Franco Bernini, Rodolfo Paoletti and Alberto Corsini
- Preventive treatment for recurrent febrile seizures 177
Heikki Rantala, Rita Tarkka and Matti Uhari

Trends in Molecular Medicine

- Androgens and the control of skeletal muscle protein synthesis 181
Melinda Sheffield-Moore

Special Section: Serotonin

Editor: Timo Partonen

- Impact of serotonin on tumour growth 187
Eric Vicaut, Elisabeth Laemmel and Olivier Stücker
- Serotonin and the heart 195
William H Frishman and Pam Grewall
- Role of serotonin in memory impairment 210
Marie-Christine Bubot, Stéphanie Martin and Louis Segu
- Separate systems for serotonin and leptin in appetite control 222
Jason C G Halford and John E Blundell

Annals of Medicine

Volume 32 • Number 4 • 2000

Editorials

- Mechanotransduction and arterial smooth muscle cells: new insight into hypertension and atherosclerosis 233
Richard T Lee and Hayden Huang
- Awareness of time during sleep 236
William H Moorcroft and Joseph L Breitenstein

Review Articles

- Effectiveness of individual lifestyle interventions in reducing cardiovascular disease and risk factors 239
Eeva Ketola, Raija Sipilä and Marjukka Mäkelä
- Poor prognosis of depression in elderly people: causes and actions 252
Robert Charles Baldwin

Trends in Clinical Practice

- Prevention of delirium in hospitalized older patients: risk factors and targeted intervention strategies 257
Sharon K Inouye

Trends in Molecular Medicine

- Impact of transposable elements on the human genome 264
Jean Marc Deragon and Pierre Capi
- Function of C-reactive protein 274
Terry W Du Clos

Original Article

- Ligase chain reaction assay is clinically useful in the discrimination of smear-positive pulmonary tuberculosis from atypical mycobacterioses 279
Arja H Viinonen, Hanna Soini, Merja Marjamäki, Kari Liippo and Matti K Viljanen

Annals of Medicine

Volume 32 • Number 5 • 2000

Editorial

- DNA vaccination to treat autoimmune diabetes 285
Matthias G von Herrath and J Lindsay Whitton

Review Article

- Testing for endothelial dysfunction 293
Olli T Raitakari and David S Celermajer

Trends in Clinical Practice

- Evidence-based data on pain relief with antidepressants 305
David Fishbain
- Dangers of growth hormone therapy in critically ill patients 317
Esko Ruokonen and Jukka Takala

Special Section: Psychosomatic Cardiology

Guest Editor: Kaj Groundstroem

- Psychosomatic medicine: state of the art 323
Holger Ursin
- Cardiovascular psychophysiology 329
Stein Knardahl
- Concepts and methodology of psychosomatic research: facing the complexity 336
Hasse E Karlsson
- Physiological basis for human autonomic rhythms 341
Dwain L Eckberg
- The brain-heart axis in the perception of cardiac pain: the elusive link between ischaemia and pain 350
Stuart D Rosen and Paolo G Camici
- The changing face of sympathetic overactivity in hypertension 365
Stevo Julius and Silja Majahalme
- Psychosocial factors in the development of hypertension 371
Andrew Steptoe

Annals of Medicine

Volume 32 • Number 6 • 2000

Editorials

- Microchip technology in drug delivery 377
John T Santini Jr, Amy C Richards, Rebecca A Scheidt, Michael J Cima and Robert S Langer
- Adrenergically stimulated fat utilization and ageing 380
Ellen E Blaak
- Arterial stiffness and the development of hypertension 383
Duanping Liao

Review Articles

- Angiotensin AT1 receptor over-expression in hypercholesterolaemia 386
Kerstin Strehlow, Sven Wassmann, Michael Böhm and Georg Nickenig
- Daycare attendance, asthma and atopy 390
Wenche Nystad
- Puzzling associations between childhood infections and the later occurrence of asthma and atopy 397
Leena C von Hertzen
- Consequences of adolescent drug use on psychiatric disorders in early adulthood 401
Judith S Brook, Linda Richter and Elizabeth Rubenstein

Trends in Clinical Practice

- Electrophysiologically guided ablation of the pulmonary veins for the curative treatment of atrial fibrillation 408
Dipen C Shah, Michel Haïssaguerre, Pierre Jaïs, Méléze Hocini, Teiichi Yamane, Isabel Deisenhofer, Stéphane Garrigue and Jacques Clémenty

Original Articles

- Increased bronchial nitric oxide production in patients with asthma measured with a novel method of different exhalation flow rates 417
Lauri Lehtimäki, Väinö Turjanmaa, Hannu Kankaanranta, Seppo Saarelainen, Paula Hahtola and Eeva Moilanen
- Low serum insulin-like growth factor-binding protein-1 is associated with an unfavourable cardiovascular risk profile in elderly men 424
Maija Harrela, Riitta Koistinen, Jaakko Tuomilehto, Aulikki Nissinen and Markku Seppälä

Annals of Medicine

Volume 32 • Number 7 • 2000

Review Articles

- Neuropeptide-induced chemotaxis of eosinophils in pulmonary diseases 429
Stefan Dunzendorfer and Christian J Wiedermann
- Campylobacters: the most common bacterial enteropathogens in the Nordic countries . 440
Hilpi Rautelin and Marja-Liisa Hänninen

Trends in Clinical Practice

- Eosinophilic bronchitis: an important cause of prolonged cough 446
Chris E Brightling and Ian D Pavord
- Should we continue growth hormone (GH) replacement therapy in adults with GH deficiency? 452
Jan C ter Maaten

Trends in Molecular Medicine

- Mammalian cloning: possibilities and threats 462
Shoukhrat M Mitalipov and Don P Wolf

Special Section: Viruses, Prions and Blood Products

Guest Editors: Freja Ebeling and Markku Heikinheimo

- Current viral risks of blood and blood products 469
Roger Y Dodd
- Efforts in minimizing risk of viral transmission through viral inactivation 475
Bernard Horowitz and Ehud Ben-Hur
- Viral safety of haemophilia treatment products 485
Jerome M Teitel
- Human prion diseases 493
Matti J Haltia
- Prions and blood products 501
Peter R Foster

Annals of Medicine

Volume 32 • Number 8 • 2000

Editorial

- Endothelial dysfunction in acute coronary syndromes: association with elevated C-reactive protein levels 515
Stephan Fichtlscherer and Andreas M Zeiher

Review Articles

- Bombesin-like peptides: studies on food intake and social behaviour with receptor knock-out mice 519
Kazuyuki Yamada, Etsuko Wada and Keiji Wada
- Hereditary tyrosinaemia type I: from basics to progress in treatment 530
Sari T Pitkänen, Matti K Salo and Markku Heikinheimo
- A proposal of three distinct subtypes of type 1 diabetes mellitus based on clinical and pathological evidence 539
Akihisa Imagawa, Toshiaki Hanafusa, Jun-ichiro Miyagawa and Yuji Matsuzawa

Trends in Clinical Practice

- Management of hyperinsulinism in infancy and childhood 544
Khalid Hussain and Albert Aynsley-Green
- Manipulation of cytokines in the management of patients with inflammatory bowel disease 552
Giovanni Monteleone and Thomas T MacDonald
- Antiplatelet medications and their indications in preventing and treating coronary thrombosis 561
Eric Van De Graaff and Steven R Steinhubl

Trends in Molecular Medicine

- Phospholamban and cardiac contractility 572
Konrad Frank and Evangelia G Kranias

Original Article

- Associations between change in C-reactive protein and serum lipids during statin treatment 579
Timo E Strandberg, Hannu Vanhanen and Matti J Tikkanen

Annals of Medicine

Volume 32 • Number 9 • 2000

Editorials

- The future of fluoroquinolones 585
Karl Drlica
- Predictors of liver-related complications in patients with chronic hepatitis C 588
Shivakumar Chitturi and Jacob George

Review Articles

- Brain imaging and the effects of caffeine and nicotine 592
Stephen R Dager and Seth D Friedman
- Immunopathogenesis of HTLV-I-associated myelopathy/tropical spastic paraparesis ... 600
Tatsufumi Nakamura

Trends in Clinical Practice

- The replacement of oestradiol and progesterone in very premature infants 608
Andreas Trotter and Frank Pohlandt
- Autologous blood stem cell transplantation as therapy for autoimmune diseases 615
Sarah J Bingham, John A Snowden and Paul Emery
- Intracoronary radiotherapy for prevention of restenosis after percutaneous coronary interventions 622
Grzegorz L Kaluza, Nadir M Ali and Albert E Raizner
- The GlucoWatch® biographer: a frequent, automatic and noninvasive glucose monitor .. 632
Michael J Tierney, Janet A Tamada, Russell O Potts, Richard C Eastman, Kenneth Pitzer, Neil R Ackerman and Steven J Fermi

Trends in Molecular Medicine

- High-density lipoprotein: gene-based approaches to the prevention of atherosclerosis . 642
James X Rong and Edward A Fisher

Original Article

- Association of CagA-positive infection with *Helicobacter pylori* antibodies of IgA class . 652
Hilpi I K Rautelin, Aino M Oksanen, Riitta A Karttunen, Kari M Y Seppälä, Jarmo R K Virtamo, Arpo J Aromaa and Timo U Kosunen

Annals of Medicine

Volume 32 • Supplement 1 • 2000

Arterial Thrombosis: from Mechanisms to Treatment

Proceedings of the XIII Paavo Nurmi Symposium

Guest Editor: Riitta Lassila

Preface to the Proceedings of the XIII Paavo Nurmi Symposium	1
Riitta Lassila and Vesa Manninen	
Role of von Willebrand factor in platelet thrombus formation	2
Zaverio M Ruggeri	
Genetics of platelet receptor single-nucleotide polymorphisms: clinical implications in thrombosis	10
Jürg H Beer, Stefanie Pederiva and Luca Pontiggia	
Platelet activation by ADP: the role of ADP antagonists	15
Christian Gachet	
Cyclo-oxygenase products and atherothrombosis	21
Garret A FitzGerald, Sandra Austin, Karine Egan and Domenico Pratico	
Antiphospholipid antibodies in arterial thrombosis	27
Takao Koike	
Lupus anticoagulant in cardiovascular diseases: the role of β 2-glycoprotein I	32
Philip G de Groot, Barend Bouma, Bianca C H Lutters and Ronald H W M Derksen	
Autoantibodies associated with atherosclerosis	37
Yehuda Shoenfeld, Yaniv Sherer, Jacob George and Dror Harats	
Treatment of thrombosis associated with immunological risk factors	41
Guido Valesini and Valerio Pittoni	
Hyperhomocysteinaemia and atherothrombosis	46
Marco Cattaneo	
Acute and prolonged treatment with low-molecular-weight heparin therapy in patients with unstable coronary artery disease	53
Steen Husted and André Kher	
Heparin-induced thrombocytopenia: laboratory diagnosis and management	60
Ismail Elalamy, Chantal Lecrubier, Marie-Hélène Horellou, Jacqueline Conard and Meyer M Samama	
Future possibilities in the regulation of the extrinsic pathway: irFVIIa and TFPI	68
Ulla Hedner and Elisabeth Erhardtsen	
Thrombomodulin: a linker of coagulation and fibrinolysis and predictor of risk of arterial thrombosis	73
Kenneth K Wu and Nena Matijevic-Aleksic	
Hypofibrinolysis and increased PAI-1 are linked to atherothrombosis via insulin resistance and obesity	78
Irène Juhan-Vague, Marie Christine Alessi and Pierre E Morange	
Fibrinolytic factors and atherothrombotic events: epidemiological evidence	85
Aaron R Folsom	

